UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/714,037	11/14/2003	Thomas A. Knotts	10030689-1	1397
57299 V other Monles	7590 11/01/200	7	EXAM	MINER
Kathy Manke Avago Technol			BOLOURCHI, NADER	
4380 Ziegler R Fort Collins, Co			ART UNIT	PAPER NUMBER
•			2611	
			NOTIFICATION DATE	DELIVERY MODE
			11/01/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

avagoip@system.foundationip.com kathy.manke@avagotech.com scott.weitzel@avagotech.com

Supplemental Notice of Allowability Application No. Applicant(s) 10/714,037 Examiner Art Unit Noder Releases

Notice of Allowability	A 11-14			
Notice of Allowability	Examiner	Art Unit		
	Nader Bolourchi	2611		
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS nerewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in or other appropriate commur GHTS. This application is su	this application. If not incl nication will be mailed in d	uded ue course. THI S	
1. This communication is responsive to 8/16/2007.				
2. $igotimes$ The allowed claim(s) is/are <u>19 and 21-34, renumbered as 1</u>	1, and 2-15, respectively.			
a) ☐ All b) ☐ Some* c) ☐ None of the:	•	(f).		
1. Certified copies of the priority documents have		No		
2. Certified copies of the priority documents have			ication from the	
3. Copies of the certified copies of the priority doc	cuments have been received	in this flational stage appi	ication nom the	
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:				
· · · · · · · · · · · · · · · · · · ·				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the	requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAI es reason(s) why the oath or	MINER'S AMENDMENT of declaration is deficient.	r NOTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) [] including changes required by the Notice of Draftspers	on's Patent Drawing Review	(PTO-948) attached		
1) 🗌 hereto or 2) 📗 to Paper No./Mail Date				
(b) [] including changes required by the attached Examiner's Paper No./Mail Date				
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the he header according to 37 CFF	e drawings in the front (not t 1.121(d).	the back) of	
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 	SIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	RIAL must be submitted LOGICAL MATERIAL.	d. Note the	
Attachment(s)	E □ Nation of Inf	ermal Dotont Application		
1. Notice of References Cited (PTO-892)	=	ormal Patent Application		
 Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO/SB/08), 	6. ☐ Interview Summary (PTO-413), Paper No./Mail Date 7. ☐ Examiner's Amendment/Comment			
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	_	Statement of Reasons for	Allowance	
of Biological Material	_			
·	9. 🗌 Other	Dand Large DAVID C. PAYNE		
	SUPERVI	SORY PATENT EXAMI	NER	

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06) Application/Control Number: 10/714,037 Page 2

Art Unit: 2611

DETAILED ACTION

Remarks

- 1. Applicant's amendment dated 08/16/2007 is entered.
- 2. Claim rejections under 35 USC § 112 are withdrawn.
- 3. Claims rejections under 35 USC § 102 are withdrawn.
- 4. Claims rejections under 35 USC § 103 are withdrawn.

Response to Arguments

5. Applicant's arguments, see Remarks pages 7-8, filed 08/16/2007, with respect to claims 1-23 have been fully considered and are persuasive. The rejection of claims 19 and 24; as well as objection of claims 20-23 has been withdrawn.

Allowable Subject Matter

- 6. Claims 19 and 21-34 are allowed.
- 7. The following is an examiner's statement of reasons for allowance:

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Koide (US 2003/0118380), and Pham (US 2005/0057289). However, the prior arts of record fail to teach or suggest in combination, the arrangement that "a voltage controlled oscillator (VCO); and a frequency detector in signal communication with said VCO, said frequency detector including: a counter configured to receive: a VCO signal from said VCO; and a preset value; and a

Application/Control Number: 10/714,037

Art Unit: 2611

controller operable to control said counter; wherein said counter generates frequency information related to said VCO signal in response to said controller, said VCO signal, and said preset value;" in combination with "a voltage controlled oscillator (VCO); and a frequency detector in signal communication with said VCO, said frequency detector including: a counter configured to receive: a VCO signal from said VCO; and a preset value; and a controller operable to control said counter; wherein said counter generates frequency information related to said VCO signal in response to said controller, said VCO signal, and said preset value;" in order to form "A PHASE-LOCKED LOOP", as recited in claim 19, and some variation of wording as recited in claims 25 and 30, and further limitation of their respective dependent claims 20-24, 26-29, and 31-34, correspondingly.

8. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nader Bolourchi whose telephone number is (571) 272-8064. The examiner can normally be reached on M-F 8:30 to 5:00.

Application/Control Number: 10/714,037 Page 4

Art Unit: 2611

10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David. C. Payne can be reached on (571) 272-3024. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

11. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).

7

DAVID C. PAYNE SUPERVISORY PATENT EXAMINER